

**Greenville Steam Company
Piscataquis County
Greenville Junction, Maine
A-261-77-3-A**

**Departmental
Findings of Fact and Order
Part 70 Air Emission License
New Source Review #3**

After review of the Chapter 115 License application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A, Section 344 and Section 590, the Department finds the following facts:

I. Registration

A. Introduction

FACILITY	Greenville Steam Company (GSC)
INITIAL LICENSE NUMBER	A-261-70-A-I
LICENSE TYPE	Chapter 115 Minor Modification
NAICS CODES	221119
NATURE OF BUSINESS	Electric Power Generation
FACILITY LOCATION	185 Greenville Steam Road, Greenville Junction
PART 70 LICENSE ISSUANCE DATE	August 7, 2003
PART 70 LICENSE EXPIRATION DATE	August 7, 2008

B. Amendment Description

In January 2006 GSC received a New Source Review (NSR) minor modification (A-261-77-1-A) detailing the reconstruction changes necessary to allow GSC to qualify as a renewable energy generator for the State of Massachusetts. Plant construction work began in February 2006 and first commercial operation began in April 2006.

Since that time, GSC has worked toward optimizing its systems and addressing unexpected operational problems especially as they concern emissions of CO. In June 2006, GSC retained an independent engineering firm to perform an engineering analysis of the boiler system and to make recommendations on how to lower CO emissions.

Based on the findings of this engineering analysis, GSC plans to perform the following work on Boiler #1A:

1. Repair air leaks below refractory;
2. Install 3-inch wind swept rotating damper by-pass with gate valve control;
3. Clean boiler generating bank surface with high pressure water wash;
4. Clean fouling of economizer tubes;
5. Repair or plug all air heater tube leaks;
6. Improve the time uniformity of fuel delivery from metering screws by cut and try approach;
7. Seal cooling slots on boiler back and boiler front side of bed air distribution manifolds by seal welding; and
8. Duct forced draft fan suction to pull in outside air.

GSC plans to take Boiler #1A off-line to do this work in September. Because of the extensive work needed to be performed, GSC has requested that the Department grant them an additional stabilization period as outlined in NSR license A-261-77-1-A for the time period subsequent to this shutdown.

The stabilization period will begin at the initial startup after this shutdown, hereafter called Fall 2006 Shutdown.” Only one stabilization period applies and GSC cannot reset the stabilization period by scheduling additional shutdowns.

C. Application Classification

The application for GSC does not violate any applicable federal or state requirements and does not reduce monitoring, reporting, testing or record keeping. This application does seek to modify a Best Available Control Technology (BACT) analysis performed per New Source Review.

Therefore, this amendment is determined to be a minor modification under MEDEP Chapters 115 and has been processed as such.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that emissions from this sources:

- will receive Best Practical Treatment;
- will not violate applicable emissions standards
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants the Chapter 115 Minor Modification A-261-77-3-A pursuant to the preconstruction licensing requirements of MEDEP Chapter 115 and subject to the standard and special conditions below.

For each standard and special condition which is state enforceable only, state-only enforceability is designated with the following statement: **Enforceable by State-only.**

Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

The following shall replace Condition (4) of NSR license A-261-77-1-A:

(4) Initial Startup After Fall 2006 Shutdown

- A. GSC shall comply with all applicable emission standards and monitoring requirements within 180 days of initial startup after the Fall 2006 shutdown. [40 CFR Part 60, Subparts A and Db]
- B. GSC shall perform an initial compliance test no later than 180 days after initial startup after the Fall 2006 shutdown for PM and NH₃. [40 CFR Part 60, Subparts A and Db and MEDEP Chapter 115, BACT]
- C. The first 30 days after initial startup after the Fall 2006 shutdown shall be considered a stabilization period. During the stabilization period, GSC shall maintain best management practices to minimize air emissions, however, numerical emission limits and monitoring requirements shall not apply. [MEDEP Chapter 115, BACT]
- D. After the stabilization period, the monitoring requirements of MEDEP Chapter 117 shall apply. [MEDEP Chapter 115, BACT]

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- E. The previous emission limits for Boiler #1 listed in Air Emission License A-261-70-A-I shall apply to Boiler #1A after the initial stabilization period until completion of the initial compliance test or 180 days after initial startup after the Fall 2006 shutdown, whichever is sooner.
[MEDEP Chapter 115, BACT]

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2006.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAVID P. LITTELL, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 6/28/06

Date of application acceptance: 7/3/06

Date filed with the Board of Environmental Protection: _____

This Order prepared by Lynn Ross, Bureau of Air Quality.